OM nucleic - nucleic search, using sw model

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GenCore version 5.1.3

Run on: February 3, 2003, 16:20:58 ; Search time 90 Seconds
                                            (without alignments)
                                            12878.925 Million cell updates/sec

Title: US-10-047-593-5
Perfect score: 2580
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Scoring table: IDENTITY_NUC
                Gapop 10.0 , Gapext 1.0

Searched: 396772 seqs, 224632407 residues
Total number of hits satisfying chosen parameters: 793544

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :   Published Applications_NA:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	2579.6	100.0	2580	9	US-10-047-593-5	Sequence 5, Appli
2	2579.6	100.0	7789	9	US-09-923-876-7789	Sequence 3, Appli
3	82.8	3.2	233	10	US-10-047-593-3	Sequence 3107, Ap
4	68.6	2.7	12561	9	US-10-005-057A-41	Sequence 41, Appl
c 5	66	2.4	281	10	US-09-923-876-4089	Sequence 4089, Ap
c 6	61.8	2.4	266	10	US-09-923-876-3931	Sequence 3931, Ap
c 7	46.4	1.8	305	10	US-09-864-761-19262	Sequence 19262, A
c 8	46.4	1.8	659158	9	US-09-771-208-20	Sequence 20, Appl
c 9	46.2	1.8	299	10	US-09-864-761-21553	Sequence 21553, A
c 10	45.2	1.8	32195	10	US-09-764-870-611	Sequence 611, App
11	45.2	1.8	32195	10	US-09-764-870-617	Sequence 617, App
12	45.2	1.8	32195	10	US-09-764-869-1605	Sequence 1605, Ap
13	45	1.7	2580	9	US-10-047-593-5	Sequence 5, Appli
c 14	45	1.7	7789	9	US-09-923-876-7789	Sequence 3, Appli
c 15	42.4	1.6	375	10	US-09-960-352-15014	Sequence 15014, A
c 16	41	1.6	479	10	US-09-864-761-3539	Sequence 3539, Ap
c 17	41	1.6	494	10	US-09-864-761-2947	Sequence 2947, Ap
c 18	40.8	1.6	726	10	US-09-864-761-19707	Sequence 19707, A
c 19	40.8	1.6	1951	10	US-09-864-761-2926	Sequence 2926, Ap
20	40	1.6	227	10	US-09-864-761-19728	Sequence 19728, A
21	40	1.6	470	10	US-09-864-761-2442	Sequence 2442, Ap
22	39.8	1.5	218	10	US-09-864-761-23306	Sequence 23306, A
23	39.8	1.5	598	10	US-09-864-761-7439	Sequence 7439, Ap
24	39.6	1.5	1064	10	US-09-804-682-29	Sequence 29, Appl
25	39.6	1.5	5387	9	US-10-001-873-22	Sequence 22, Appl
26	39.6	1.5	8317	10	US-09-764-869-1279	Sequence 1279, Ap
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c 28	39.4	1.5	720	9	US-10-101-487-74	Sequence 74, Appl
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c 30	39.4	1.5	11962	10	US-09-905-129-20	Sequence 20, Appl
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c 34	39.4	1.5	53522	9	US-09-904-968A-1	Sequence 1, Appli
c 35	39	1.5	216	10	US-09-864-761-20309	Sequence 20309, A
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c 37	39	1.5	464	10	US-09-864-761-871	Sequence 871, App
c 38	39	1.5	496	10	US-09-864-761-2534	Sequence 2534, Ap
c 39	39	1.5	8895	10	US-09-764-853-887	Sequence 887, Appl
c 40	39	1.5	8895	10	US-09-764-853-937	Sequence 937, App
c 41	39	1.5	8895	10	US-09-764-853-886	Sequence 886, App
c 42	39	1.5	9656	10	US-09-764-853-933	Sequence 933, App
c 43	39	1.5	9656	10	US-09-764-869-2355	Sequence 2355, Ap
c 44	38.8	1.5	15567	12	US-10-047-676A-3	Sequence 3, Appli
c 45	38.8	1.5	174424	10	US-09-967-768A-314	Sequence 314, App

ALIGNMENTS

RESULT 1
US-10-047-593-5

; Sequence 5, Application US/10047593
; Patent No. US2002017009A1
; GENERAL INFORMATION:
; APPLICANT: Rice, Douglas H.
; APPLICANT: Crane, Edmund H. III
; TITLE OF INVENTION: Maize NPR1 Polynucleotides and Methods
; TITLE OF INVENTION: of Use
; FILE REFERENCE: 1090D2
; CURRENT APPLICATION NUMBER: US/10/047,593
; CURRENT FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/130,692
; PRIOR FILING DATE: 1999-04-23
; PRIOR APPLICATION NUMBER: 09/551,778
; PRIOR FILING DATE: 2000-04-18
; NUMBER OF SEQ ID NOS: 6
; SEQ ID NO 5
; LENGTH: 2715
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: promoter
; LOCATION: (1)...(2715)
US-10-047-593-5

  Query Match   100.0%; Score 2579.6; DB 9; Length 2580;
  Best Local Similarity 100.0%; Pred. No. 0;
  Matches 2580; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 GCGGCCGCGTAATACGACTCACTATAGGGCGAAGAATTCGGATCTCCTTCCTTATTTGGC 60
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Db   1 GCGGCCGCGTAATACGACTCACTATAGGGCGAAGAATTCGGATCTCCTTCCTTATTTGGC 60

Qy   61 GAAGCCGACCGTTGGCGCGTTTGGAGCCGGTTGGGGCGCACCGGACACTGTCCGGTCGCA 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 GAAGCCGACCGTTGGCGCGTTTGGAGCCGGTTGGGGCGCACCGGACACTGTCCGGTCGCA 120

Qy   121 GACAGTCAGGTGCCCCCTTCCGACCGTTGGCTCGGCCACGTGTTTCGGCGGCGGATCGGCCG 180
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Qy    181 GCAGACCCGTTGGCCGACCGACCGGCGGTTGGCTCACCGGACCAGAGACAGT 240
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Db    181 GCAGACCCGTTGGCCGACCGACCGGCGGTTGGCTCACCGGACCAGAGACAGT 240

Qy    241 CCGGTGAATTATAGCCGTACGGCCGCCCGGTTAATCACTTCCCGGAGAGCAGCAGCAAGTTCGCCTGAGC 300
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 CCGGTGAATTATAGCCGTACGGCCGCCCGGTTAATCACTTCCCGGAGAGCAGCAGCAAGTTCGCCTGAGC 300

Qy    301 CAGCCTGGGCGCCACCGGACACGTCCGGTGAACCACCCAGTCAG 360
          |||||||||||||||||||||||||||||||||||||||||||
Db    301 CAGCCTGGGCGCCACCGGACACGTCCGGTGAACCACCCAGTCAG 360

Qy    361 AGCTGACTTTGGCTGGAACAAAGTCATCTTTAGTTTTTCCTTGTTTCCAGC 420
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Qy    481 TACTTGGTTTGTACTTTGTCCACCATTAACACTTGGGCACTTGGTGTTGGACACTAAAATC 540
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Db    481 TACTTGGTTTGTACTTTGTCCACCATTAACACTTGGGCACTTGGTGTTGGACACTAAAATC 540

Qy    541 ACCAAAATACTTAGAAAATGGCCCAAGGGCACACATTTCCCTTTCAACAGTCCGGTGCCACAC 600
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Db    541 ACCAAAATACTTAGAAAATGGCCCAAGGGCACACATTTCCCTTTCAACAGTCCGGTGCCACAC 600

Qy    601 CGGACAGTCCGGTGACCTCTGACTTCTGTTTCTGTCCGGCACTGTTTCGCA 660
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Qy    661 CTATACGGTTTTGCAGTCGACCGTTGGGCGACAGAGCATTGCTCCCCTGGCCACCG 720
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Db    661 CTATACGGTTTTGCAGTCGACCGTTGGGCGACAGAGCATTGCTCCCCTGGCCACCG 720

Qy    721 GACAGTCCGATGAATTATAGGGGASCGGCCCTGAATTCCCGAGTGTGGCCTGTTTGAA 780
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Db    721 GACAGTCCGATGAATTATAGGGGASCGGCCCTGAATTCCCGAGTGTGGCCTGTTTGAA 780

Qy    781 GGGGCGGCCTGGGCCTGGGTGCACCGGACAAATGTATGGCCCAAAAAATCAGACACTCAAGT 840
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Qy    841 CCTTTGCTTCATTTTTTATTGTGTGGTCGGCTAACTGGATTTCTTTTTGGTTTGTTGTTGAACCT 900
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Db    841 CCTTTGCTTCATTTTTTATTGTGTGGTCGGCTAACTGGATTTCTTTTTGGTTTGTTGTTGAACCT 900

Qy    901 TATGCACCTGAGATAAATCACATCTAGCCAAACTAGTTAGTCCATGTGGTTTGTTTGTTGAT 960
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Db    901 TATGCACCTGAGATAAATCACATCTAGCCAAACTAGTTAGTCCATGTGGTTTGTTTGTTGAT 960

Qy    961 CGTCAACTACTAAAATCTATTTATAGAAAGTGGTTAACCCTATTTCCCTTTCAGCACACT 1020
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Qy   1021 CTATATAGTGCTTGAGACCTTGACATGAAGTGTCCTAGGAAGCCAAGGGTGTCTCTCGCGTAA 1080
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Db   1021 CTATATAGTGCTTGAGACCTTGACATGAAGTGTCCTAGGAAGCCAAGGGTGTCTCTCGCGTAA 1080

Qy   1081 GGTCCTCGACATGCAGGACCCCGTTAGAATGGGGGCCTTGTCCATAAGAGAGTTG 1140
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Qy   1141 GGCTCTAAGATGCAATGACTGACTGAACACCTTCTTAATAAAGTTAGATGA 1200
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Db   1141 GGCTCTAAGATGCAATGACTGACTGAACACCTTCTTAATAAAGTTAGATGA 1200

Qy   1201 TGTTTTGCCAACATCTGATGATAATGTCTTGGGTCCTTACAAAAAGCCTTGTTTTTTTATCTTC 1260
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Db   1201 TGTTTTGCCAACATCTGATGATAATGTCTTGGGTCCTTACAAAAAGCCTTGTTTTTTTATCTTC 1260


Qy   1261 CTTTTCGTTCTTAATAAAGATCCATATTACATTTATTATTTACTATTGTCATATATTATACCTCA 1320
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Db   1261 CTTTTCGTTCTTAATAAAGATCCATATTACATTTATTATTTACTATTGTCATATATTATACCTCA 1320

Qy   1321 CTATCTCGAAGATACATCTCGTTGCGGAAGCAGCATAAGGTAGCTTTGGAGGTAAAAGCTTAGA 1380
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Qy   1381 GCCACATGTGGGTGCAACAAACATGGGGGGCACAACACCTCACCTCACTCAATTCACAATT 1440
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Qy   1561 TCAAAGTGACTTGTTTTTTTGGACCTTTGACACATAGCCTTTAAAGTAGATTTCACAATT 1620
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Db   1561 TCAAAGTGACTTGTTTTTTTGGACCTTTGACACATAGCCTTTAAAGTAGATTTCACAATT 1620

Qy   1621 TAAGCTTGTTATGTAAAACAAACTAAATTTCGAGAGAGGCTGATTGAGGAGAAAGTCTGCG 1680
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Qy   1681 GTCGATGATTCAATTGGACAGAAATCGATGTTTAAACTGTCTTGTTGATTAAATTTCTAGC 1740
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Db   1681 GTCGATGATTCAATTGGACAGAAATCGATGTTTAAACTGTCTTGTTGATTAAATTTCTAGC 1740

Qy   1741 TTCACACGTGCTTGAAACGGGCGTAGGAACGTGTTCCCTTCTTATGATTTATTATTAGA 1800
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Db   1741 TTCACACGTGCTTGAAACGGGCGTAGGAACGTGTTCCCTTCTTATGATTTATTATTAGA 1800

Qy   1801 GTAGAGTTTTGTTACAGTTTAATTACGGATTCATTACGGTATTTATTATTAGGGATTACGTTGA 1860
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Db   1801 GTAGAGTTTTGTTACAGTTTAATTACGGATTCATTACGGTATTTATTATTAGGGATTACGTTGA 1860

Qy   1861 CATATAACTTCAGTCTTTCTTTTTAATAGTCACAAGAAACTTTCACACACCTACTAGGA 1920
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Db   1861 CATATAACTTCAGTCTTTCTTTTTAATAGTCACAAGAAACTTTCACACACCTACTAGGA 1920

Qy   1921 GTAACAGAAAAACATGGACATATTGATTTTTTGAAAAAGAAAATATTGACAGATAAGGTGT 1980
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Db   1921 GTAACAGAAAAACATGGACATATTGATTTTTTGAAAAAGAAAATATTGACAGATAAGGTGT 1980

Qy   1981 TGGGGACCGGTTAGAGACTAGAGAGGATGAGGACCACGCCCAGGCCTTGCCCGATT 2040
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1981 TGGGGACCGGTTAGAGACTAGAGAGGATGAGGACCACGCCCAGGCCTTGCCCGATT 2040

Qy   2041 GCCGGTCGACCTCACCCTGGTCACTTGACGACGGTATACAGGGCGCACAGGGGTCA 2100
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Db   2041 GCCGGTCGACCTCACCCTGGTCACTTGACGACGGTATACAGGGCGCACAGGGGTCA 2100

Qy   2101 GGTTTTTCCTTCAAATTGGGCGCGAAAATACTCGAGATTTCTTGGATTTTTTACTTGTTTAT 2160
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Db   2101 GGTTTTTCCTTCAAATTGGGCGCGAAAATACTCGAGATTTCTTGGATTTTTTACTTGTTTAT 2160

Qy   2161 TCTATTCTCCTTCCCGGCGCCTCTCTAGTCATTCCCTCGTCGAGTCGGTCGTTCTTC 2220
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Db   2161 TCTATTCTCCTTCCCGGCGCCTCTCTAGTCATTCCCTCGTCGAGTCGGTCGTTCTTC 2220

Qy   2221 TTCGATCCACTCTTTCCCCATCCCTACTTTCCACGGCCAACTGCGGTTTCCCCC 2280
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Db   2221 TTCGATCCACTCTTTCCCCATCCCTACTTTCCACGGCCAACTGCGGTTTCCCCC 2280

Qy   2281 GGACTCTTCTTCCACGATTCCGTTGGACCCCTACCGGCTCCTCAGTCAGTCCGCCCCTC 2340
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Db   2281 GGACTCTTCTTCCACGATTCCGTTGGACCCCTACCGGCTCCTCAGTCAGTCCGCCCCTC 2340

Qy   2341 CCAGCACCGGCCAACAAATCCCTCAGCGTTATTCCGTAGTACTCATATGCTGCCCCTCTTGGA 2400
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Db  2341 CCAGCACCGGCCAACAATCCCTCACGTTATTCCCTGTAGTGACTATGCTGCCCTTCTTGGA
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Db  2401 TCCCTTTTTTCACTTGTCTCTGAGATTTAGCCACCACCGCCGGGTAGGAGGAAGAAGGGGGGGAAGCAC 2460
Qy  2461 CATATTTTCTGTTCCTGGCCGTGACGCCGCCCCCGGGTGAGATTTCACTCCCGGGATGGGCAC 2520
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Qy  2521 GCTGGGAGGACTCGGCGTGTTGATTTACGCCGCCTTCTAGGAAGGGGTCACGT 2580
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RESULT 2
US-10-047-593-3
; Sequence 3, Application US/10047593
; Patent No. US20020170094A1
; GENERAL INFORMATION:
; APPLICANT: Crane, Edmund H. III
; APPLICANT: Rice, Douglas A.
; TITLE OF INVENTION: Maize NPR1 Polynucleotides and Methods
; TITLE OF INVENTION: of Use
; FILE REFERENCE: 1090D2
; CURRENT APPLICATION NUMBER: US/10/047,593
; CURRENT FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/130,692
; PRIOR FILING DATE: 1999-04-23
; PRIOR APPLICATION NUMBER: 09/551,778
; PRIOR FILING DATE: 2000-04-18
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 7789
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: promoter
; LOCATION: (1)...(2715)
; NAME/KEY: 5'UTR
; LOCATION: (2716)...(2781)
; NAME/KEY: exon
; LOCATION: (2782)...(3435)
; NAME/KEY: intron
; LOCATION: (3436)...(3987)
; NAME/KEY: exon
; LOCATION: (3988)...(4738)
; NAME/KEY: intron
; LOCATION: (4739)...(5274)
; NAME/KEY: exon
; LOCATION: (5275)...(5475)
; NAME/KEY: intron
; LOCATION: (5476)...(5665)
; NAME/KEY: exon
; LOCATION: (5666)...(5922)
; NAME/KEY: 3'UTR
; LOCATION: (5926)...(6124)

Query Match   100.0%; Score 2579.6; DB 9; Length 7789;
Best Local Similarity 100.0%;
Matches 2580; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

[DNA sequence alignment listing continues — Qy/Db aligned rows from position 1 to 1260]
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Qy    1 GCGGGCCCGGTAATACGACTCACTATAGGGCGGAAGAATTCGGATCTCCTTCCTTATTGGC 60
Db    1 GCGGGCCCGGTAATACGACTCACTATAGGGCGGAAGAATTCGGATCTCCTTCCTTATTGGC 60
Qy   61 GAAGCCGACCCGGTTGGGCGCCTTTGGAGCCGGTTGGGCGCCGTTGGGCGGACACACTTCCCGGTGCACACCG 120
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Db  1201  TGTTTTGCCAACATCTGATGATATGTCTTGGGTGCTTACAAAAGCCTTGGTTTTATCTTC  1260
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Qy  1261  CTTTCGTCTTTAATAAAGATCCAATTACAATTTACATTTATATATTTACCTCA  1320
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Qy  1321  CTATCTCGAAGATACATCTCGTTGCGAAGCATAAGGTAGCTTGGAGGTAAAGCTTAGA  1380
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Qy  1381  GCGGACACATGTGGGGTTGCAACACAAAACATGGGGCGGCACAAACAACTCACCTCATATAACTA  1440
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Db  1381  GCGGACATGTGGGGTGCAACACAAAACATGGGGCGGCACAAACAACTCACCTCATATAACTA  1440
Qy  1441  ATTTGGCTTGCAAATCGAGAGTCCCGTACGAAAAGTACTCGTTGTCTCTTGACCCAATAA  1500
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  1441  ATTTGGCTTGCAAATCGAGAGTCCCGTACGAAAAGTACTCGTTGTCTCTTGACCCAATAA  1500
Qy  1501  ATCAAATACACCTTCTTACACAATTTGTCCATTTATATTTTCGTTTCCAATAACAAAC  1560
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  1501  ATCAAATACACCTTCTTACACAATTTGTCCATTTTATATTTTCGTTTCCAATAACAAAC  1560
Qy  1561  TCAAAGTGACTTGTTTTTTTTTGGACCTTTGACACATAGCCTTTAAAGTAGAAATTTCACAATT  1620
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  1561  TCAAAGTGACTTGTTTTTTTTTGGACCTTTGACACATAGCCTTTAAAGTAGAATTTCACAATT  1620
Qy  1621  TAAGCTTGTTATGTAAAACAAAACTAAATTTCGAGAGAGAGGGCTGATTGAGAAGAAGTTCTCG  1680
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  1621  TAAGCTTGTTATGTAAAACAAAACTAAATTTCGAGAGAGAGGGCTGATTGAGAAGAAGTTCTCG  1680
Qy  1681  GTCGATGATTCAAATTGGACGAAATCGATGTTTTAAACTGTCTTGTTGTTGAATTAAAATTTCTAGC  1740
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  1681  GTCGATGATTCAAATTGGACGAAATCGATGTTTTAAACTGTCTTGTTGTTGAATTAAAATTTCTAGC  1740
Qy  1741  TTCACACGTGCTTGAACGGGCGTAGGAAGTGTTGGGAATTTCCCTTCTTATGATTTATTAGA  1800
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  1741  TTCACACGTGCTTGAACGGGCGTAGGAAGTGTTGGGAATTTCCCTTCTTATGATTTATTAGA  1800
Qy  1801  GTAGAGTTTTGTTACAGTTTATTTACGGATTCATTACGGTATTTATTAGGGATTACGGTTGA  1860
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  1801  GTAGAGTTTTGTTACAGTTTATTTACGGATTCATTACGGTATTTATTAGGGATTACGGTTGA  1860
Qy  1861  CATATAACTTCAGTCTTCTTTCTTTTTTAATAGTCACAAGAAACTTTCACACACCTACTACTAGGA  1920
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  1861  CATATAACTTCAGTCTTCTTTCTTTTTTAATAGTCACAAGAAACTTTCACACACCTACTACTAGGA  1920
Qy  1921  GTAACAGAAAAACATGGACATATTGATTTTTGAAAAAGAAAATATTGACAGAATAAGGTGT  1980
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  1921  GTAACAGAAAAACATGGACATATTGATTTTTGAAAAAGAAAATATTGACAGAATAAGGTGT  1980
Qy  1981  TGGGGACCGTAGAGACTAGAGAGGAGGGATGAGGACGGCCAGGCGACGAGCCTTGCCGATT  2040
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  1981  TGGGGACCGTAGAGACTAGAGAGGAGGGATGAGGACGGCCAGGCGACGAGCCTTGCCGATT  2040
Qy  2041  GCCGTGCGACGTCACCCTGGTCAGGGGTATACAGGGGCCAGGGCCTCA  2100
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  2041  GCCGTGCGACGTCACCCTGGTCAGGGGTATACAGGGGCCAGGGCCTCA  2100
Qy  2101  GGTTTTCCTTCAAATTCGGCCGAAAAACTACTCGAGATTTTCTTGGATTTTTTTTTTACTTGTTTAT  2160
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  2101  GGTTTTCCTTCAAATTCGGCCGAAAAACTACTCGAGATTTTCTTGGATTTTTTTTTTACTTGTTTAT  2160
Qy  2161  TCTATTCTCCCTTCCCGGCGCCCTCTAGTCTATTCTCCTTCCTTCCTCGTCGAGTCGGTCGCTTC  2220
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  2161  TCTATTCTCCTTCCCGGCGCCCTCTAGTCTATTCTCCTTCCTTCCTCGTCGAGTCGGTCGCTTC  2220
Qy  2221  TTCGGATCCACTCTTTTCCCCATCCCTATCTCCCCTTACTTTCCACGCAACTGCGTTTCCCCC  2280
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  2221  TTCGGATCCACTCTTTTCCCCATCCCTATCTCCCCTTACTTTCCACGCAACTGCGTTTCCCCC  2280
Qy  2281  GGACTCTTCTTCCCACGATTCCGTTGGACCCCTTACCGGCTTCCTCAGTTCAGTCTTCGCGCCCTC  2340
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  2281  GGACTCTTCTTCCCACGATTCCGTTGGACCCCTTACCGGCTTCCTCAGTTCAGTCCTCGCGCCCTC  2340
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RESULT 3
US-09-923-876-3107/c
; Sequence 3107, Application US/09923876
; Patent No. US20020139958A1
; GENERAL INFORMATION:
; APPLICANT: Lalgudi, Raghunath V.
; APPLICANT: Kamigaki, Laura Y. (lco)
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN SEEDLING
; FILE REFERENCE: PL-0012-1 CON
; CURRENT APPLICATION NUMBER: US/09/923,876
; CURRENT FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: 09/298,329
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: 60/085,331
; PRIOR FILING DATE: 1998-05-05
; NUMBER OF SEQ ID NOS: 6332
; SOFTWARE: PERL Program
; SEQ ID NO 3107
; LENGTH: 233
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US2002013958A1 70016172H1
US-09-923-876-3107

Query Match   3.2%;   Score 82.8;   DB 10;   Length 233;
Best Local Similarity   80.2%;   Pred. No. 1.9e-12;
Matches 138;   Conservative 0;   Mismatches 22;   Indels 12;   Gaps 3;

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Qy  427  ACACAATACATTAGTCTCTAAAACAAATGTATTAATTCTGAGAAAACATACCTTTATACTTG  486
         |||||||||||||||||||   ||||||||||||||||||||||||||||||||||||
Db  233  ACACAACACATTAGTCCATAAAATAAATGTACTAAGTCT-AGAAACAATACCTTTGACATG  175
Qy  487  GTTTGTACTTTGTTGTCCACCATTT------------AACACTTGGGCACTTGTGTTGGACACTA  536
         ||||||||||||||||||||||||             ||||||||||||||||||||||
Db  174  ATTTGTACTTTGTTGTCCACCACATTGCATAGATTCACACAAAAACACTTGTGTTGG-CACTC  116
Qy  537  AATCACCAAAATACTTAGAAAATGGCCCAAGGGCACATTTCCCTTTCAACAGT  588
         |||||||||||||||||||||||||||||||||||||||||||
Db  115  AATCACCAAAATACTTAGAAAATGGCCAAGGGCACATTTCCCTTTCAGAAAT  64
```

RESULT 4
US-10-005-057A-41/c
; Sequence 41, Application US/10005057A
; Patent No. US20020170087A1
; GENERAL INFORMATION:
; APPLICANT: Tao, Yumin
; APPLICANT: Gordon-Kamm, William J.
; APPLICANT: Shen, Bo
; APPLICANT: Lowe, Keith S.
; APPLICANT: Danilevskaya, Olga

; APPLICANT: Mahajan, Pramod
; APPLICANT: Rafalski, Antoni J.
; APPLICANT: Sakai, Hajime
; APPLICANT: Klein, Ted M.
; TITLE OF INVENTION: Transcriptional Regulator Nucleic Acids,
; TITLE OF INVENTION: Polypeptides and Methods of Use Thereof
; FILE REFERENCE: 1288
; CURRENT APPLICATION NUMBER: US/10/005,057A
; CURRENT FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/251,555
; PRIOR FILING DATE: 2000-12-06
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: FastSEQ for Windows Version 3.0
;
SEQ ID NO 41
; LENGTH: 12561
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(12561)
; OTHER INFORMATION: Zmpk1 genomic sequence
; NAME/KEY: misc_feature
; LOCATION: (1)..(12561)
; OTHER INFORMATION: n = A,T,C or G
US-10-005-057A-41

Query Match   2.7%;   Score 68.6;   DB 9;   Length 12561;
Best Local Similarity   56.2%;   Pred. No. 9.6e-08;
Matches   187;   Conservative   1;   Mismatches   140;   Indels   5;   Gaps   3;

Qy   717 ACCGGACAGTCCGATGAATTATAGGCGGASCGGCGCCTCTGAATTCCCGAGTGTGGCCTGTT 776
          ||||||||||||||||||||||||||| |||:|| ||||| ||||||||||||||||||
Db   12396 ACCGGACAGTCCGTGAATTATAGCGGAGTGCCTTTGAAAATTCCCGAAGGTGGCCAAGTT 12337

Qy   777 TGAAGGGCGCCCTGGCCTCGGGTGCACCGAACAAATGTATGGGTGCGCGCCACACTC 836
          ||||||||||||||||||||||||||||||||||||||||
Db   12336 TG-AGTTTGAGTCCCTCTGGTGCACCGGACAGTCCGGTGCCCCCCAGACCAGAGGTGCCTTC 12278

Qy   837 AAGTCCTTTGCTTCATTTTTTATTGTGTCGCTAAACTGGATTTCTTTTTGGTTTGTGTTGA 896
          |||| |||||||||||||||||||| |||||||||||||
Db   12277 GGTTGTCTTCTTTGCTCCTTTGTTGGAATCCAAAAACTTGATCTTTTTTATTGGCTAGTGTGA 12218

Qy   897 ACCTTATGCACCTG-AGATAAAATCACATCTAGCCAAACTAGTTAGTTAGTCCCATGTGGGTTTGTG 955
          ||||||||||| ||| |||||||||||||||| |||||||||||||||
Db   12217 ACCTTTTACACCTTGTATATTCTATACACTTGGGCAAAATTAGTTAGTCCAATTATTTGTGT 12158

Qy   956 TTGATCGTCTCAACTACTACTAAAATCTTATTTATAG---AAAGTGGTTAACCCTATTTCCCTTTC 1012
          ||||||||||||||||||| ||||| || ||||||||
Db   12157 TGGGCAATTCAACCACCAAAAATTAATTAGGGACTATAGGTGTAAGCCTAATTCCCTTTCA 12098

Qy   1013 AGCACACTCTATATAGTGCTTGAGACCTTCGACA 1045
          |||| |||||||||||
Db   12097 ATCTCCCCCTTTTTGGTGATTGATGCCAACACA 12065

RESULT 5
US-09-923-876-4089/c
; Sequence 4089, Application US/0992876
; Patent No. US20020013958A1
; GENERAL INFORMATION:
; APPLICANT: Lalgudi, Raghunath V.
; APPLICANT: Kamigaki, Laura Y. (ito)
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN SEEDLING
; FILE REFERENCE: PL-0012-1 CON
; CURRENT APPLICATION NUMBER: US/09/923,876
; CURRENT FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: 09/298,329
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: 60/085,331
; PRIOR FILING DATE: 1998-05-05
; NUMBER OF SEQ ID NOS: 6332
; SOFTWARE: PERL Program

SEQ ID NO 4089
; LENGTH: 281
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020013958A1 700454406H1
US-09-923-876-4089

Query Match   2.6%;   Score 66;   DB 10;   Length 281;
Best Local Similarity   83.3%;   Pred. No. 5.9e-08;
Matches   75;   Conservative   0;   Mismatches   15;   Indels   0;   Gaps   0;

Qy   494 CTTTGTCCACCCATTTAACACTTGGGCCACTTGTTGGACTAACTAAAATCACCAAAATACTTA 553
          |||||||||||||||||| ||||||||||||||||||||||||||||||
Db   271 CATTTGTCATAGTTTAACACACAACCAACCATTTGTTGTTGGACACTTAATCACCAAAAATACTTA 212

Qy   554 GAAATGGCCCAAGGGCACAATTTCCCCTTTCA 583
          ||||||||||||||||||||||||||||||||
Db   211 AAAATGGCCCAAAGGGCACAATTTCCCTTTCA 182

RESULT 6
US-09-923-876-3931/c
; Sequence 3931, Application US/09923876
; Patent No. US20020013958A1
; GENERAL INFORMATION:
; APPLICANT: Lalgudi, Raghunath V.
; APPLICANT: Kamigaki, Laura Y. (ito)
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN SEEDLING
; FILE REFERENCE: PL-0012-1 CON
; CURRENT APPLICATION NUMBER: US/09/923,876
; CURRENT FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: 09/298,329
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: 60/085,331
; PRIOR FILING DATE: 1998-05-05
; NUMBER OF SEQ ID NOS: 6332
; SOFTWARE: PERL Program
SEQ ID NO 3931
; LENGTH: 266
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020048763A1
; NAME/KEY: unsure
; LOCATION: 201, 211, 234, 244-245
; OTHER INFORMATION: a, t, c, g, or other
US-09-923-876-3931

Query Match   2.4%;   Score 61.8;   DB 10;   Length 266;
Best Local Similarity   84.6%;   Pred. No. 7.5e-07;
Matches   66;   Conservative   0;   Mismatches   12;   Indels   0;   Gaps   0;

Qy   506 TTTAACACTTGGGCACTTGTTGGACACTAAATCACCAAAATACTTAGAAAATGGCCCAA 565
          ||| |||| |||||||||||||||||||||||||||||||||| |||||||||||||
Db   259 TTTTACACACNACCNNNTTGTGTTGGNCACTAATCACCAAAATACTTANAAATGGCCCNA 200

Qy   566 GGGCACAATTTCCCCTTTCA 583
          ||||||||||||||||||||
Db   199 GGGCACAATTTCCCTTTCA 182

RESULT 7
US-09-864-761-19262
; Sequence 19262, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.

```
;    APPLICANT:  Chen, Wensheng
;    TITLE OF INVENTION:  HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
;    TITLE OF INVENTION:  GENE EXPRESSION ANALYSIS BY MICROARRAY
;    FILE REFERENCE:  Aeomica-X-1
;    CURRENT APPLICATION NUMBER:  US/09/864,761
;    CURRENT FILING DATE:  2001-05-23
;    PRIOR APPLICATION NUMBER:  US 60/180,312
;    PRIOR FILING DATE:  2000-02-04
;    PRIOR APPLICATION NUMBER:  US 60/207,456
;    PRIOR FILING DATE:  2000-05-26
;    PRIOR APPLICATION NUMBER:  US 09/632,366
;    PRIOR FILING DATE:  2000-08-03
;    PRIOR APPLICATION NUMBER:  GB 24263.6
;    PRIOR FILING DATE:  2000-10-04
;    PRIOR APPLICATION NUMBER:  US 60/236,359
;    PRIOR FILING DATE:  2000-09-27
;    PRIOR APPLICATION NUMBER:  PCT/US01/00666
;    PRIOR FILING DATE:  2001-01-30
;    PRIOR APPLICATION NUMBER:  PCT/US01/00667
;    PRIOR FILING DATE:  2001-01-30
;    PRIOR APPLICATION NUMBER:  PCT/US01/00664
;    PRIOR FILING DATE:  2001-01-30
;    PRIOR APPLICATION NUMBER:  PCT/US01/00669
;    PRIOR FILING DATE:  2001-01-30
;    PRIOR APPLICATION NUMBER:  PCT/US01/00665
;    PRIOR FILING DATE:  2001-01-30
;    PRIOR APPLICATION NUMBER:  PCT/US01/00668
;    PRIOR FILING DATE:  2001-01-30
;    PRIOR APPLICATION NUMBER:  PCT/US01/00663
;    PRIOR FILING DATE:  2001-01-30
;    PRIOR APPLICATION NUMBER:  PCT/US01/00662
;    PRIOR FILING DATE:  2001-01-30
;    PRIOR APPLICATION NUMBER:  PCT/US01/00661
;    PRIOR FILING DATE:  2001-01-30
;    PRIOR APPLICATION NUMBER:  PCT/US01/00670
;    PRIOR FILING DATE:  2001-01-30
;    PRIOR APPLICATION NUMBER:  US 60/234,687
;    PRIOR FILING DATE:  2000-09-21
;    PRIOR APPLICATION NUMBER:  US 09/608,408
;    PRIOR FILING DATE:  2000-06-30
;    PRIOR APPLICATION NUMBER:  US 09/774,203
;    PRIOR FILING DATE:  2001-01-29
;    NUMBER OF SEQ ID NOS:  49117
;    SOFTWARE:  Annomax Sequence Listing Engine vers. 1.1
;
;    SEQ ID NO 19262
;    LENGTH:  305
;    TYPE:  DNA
;    ORGANISM:  Homo sapiens
;    FEATURE:
;    OTHER INFORMATION:  MAP TO AC011416.1
;    OTHER INFORMATION:  EXPRESSED IN PLACENTA, SIGNAL = 3.6
;    OTHER INFORMATION:  EXPRESSED IN HBL100, SIGNAL = 1.8
;    OTHER INFORMATION:  EXPRESSED IN HEART, SIGNAL = 3.9
;    OTHER INFORMATION:  EXPRESSED IN BONE MARROW, SIGNAL = 2.7
;    OTHER INFORMATION:  EXPRESSED IN HELA, SIGNAL = 2.4
;    OTHER INFORMATION:  EXPRESSED IN BRAIN, SIGNAL = 3.5
;    OTHER INFORMATION:  EXPRESSED IN LUNG, SIGNAL = 2.8
;    OTHER INFORMATION:  EXPRESSED IN BT474, SIGNAL = 35
;    OTHER INFORMATION:  EXPRESSED IN ADULT LIVER, SIGNAL = 3.6
;    OTHER INFORMATION:  EXPRESSED IN FETAL LIVER, SIGNAL = 2.8
;    OTHER INFORMATION:  NT HIT:  U67539.1, EVALUE 7.40e-01
;    OTHER INFORMATION:  SWISSPROT HIT:  P05156, EVALUE 9.40e+00
;    OTHER INFORMATION:  EST_HUMAN HIT:  BF129635.1, EVALUE 1.10e+00

US-09-864-761-19262

Query Match             1.8%;    Score 46.4;    DB 10;    Length 305;
Best Local Similarity  50.4%;    Pred. No. 0.0098;
Matches   140;    Conservative  0;    Mismatches 136;    Indels   2;    Gaps    1;

Qy    2132  AGATTCTTGGATTTTTTTTACTTGTTTATTCTATTCTTCTTCTTCTTCTTCTTCTTCTTCCTTCCGGGGCCCTCTAGTCTA  2191
            ||||| ||   |                    ||||||||||||||||||||||||||||||||||||||||||
Db      10  AGATTCTTAAATTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTC   69
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Qy    2192  TCTCTCCTTTCCCGTCGAGTCGTCGTCGTCTTCTTCGAATCCACTCTTTTCCCCATCCCTATCTC  2251
            |||||  |||  ||        ||  || |   ||||| |   ||||||||||| |||
Db      70  TTCTTCTTCTTCTTC--TTCTTCTTCTTCTTCTTCCACGATTCCGTTGGACCCC  127

Qy    2252  CCTACTTTCGACGCAACTGCGGTTTCCCCCGGACTCTTCTTCTTCCACGATTCCGTTGGACCCC  2311
            ||||||||||||||||||||||||||||||||||||||  ||||||||||||||||||||||||
Db     128  TCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT  187

Qy    2312  TACCGCTCCTCAGTCACGTCCTTGGCCCCTCCCAGCACGCACCGGGCCAACGAATCCCTCACGTTATT  2371
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     188  TCTTCTTCTTCTTCTTCTTCTCGCTCTCTCCCACCCCACACCCCAACCACACAGAATCTTCTTCTTCT  247

Qy    2372  CCCTGTAGCTACTATATGCTGCCCCTTCTTGGATCCCTTTTTTT  2409
            |||                ||||||||||||||||||  ||||
Db     248  GTCTTTTGGAATAATAATACTTTCTGTGAGTTTTTTTTT  285
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RESULT 8
US-09-771-208-20
; Sequence 20, Application US/09771208
; Patent No. US20020155564A1
; GENERAL INFORMATION:
;    APPLICANT:  MEDRANO, JUAN
;    APPLICANT:  BRADFORD, ERIC
;    APPLICANT:  HORVAT, SIMON
;    TITLE OF INVENTION:  CLONING OF A HIGH-GROWTH GENE
;    FILE REFERENCE:  4077-92377I0US
;    CURRENT APPLICATION NUMBER:  US/09/771,208
;    CURRENT FILING DATE:  2001-01-26
;    PRIOR APPLICATION NUMBER:  US 08/999,477
;    PRIOR FILING DATE:  1997-12-29
;    NUMBER OF SEQ ID NOS:  20
;    SOFTWARE:  PatentIn version 3.0
;
;    SEQ ID NO 20
;    LENGTH:  659158
;    TYPE:  DNA
;    ORGANISM:  Mus musculus
;    FEATURE:
;    NAME/KEY:  misc feature
;    LOCATION:  (123459)..(123478)
;    OTHER INFORMATION:  n is unidentified a, c, g, or t
;    NAME/KEY:  misc feature
;    LOCATION:  (390986)..(391005)
;    OTHER INFORMATION:  n is unidentified a, c, g, or t
;    NAME/KEY:  misc feature
;    LOCATION:  (602466)..(602485)
;    OTHER INFORMATION:  n is unidentified a, c, g, or t
;    NAME/KEY:  misc feature
;    LOCATION:  (346860)..(346823)
;    OTHER INFORMATION:  n is unidentified a, c, g, or t
;    NAME/KEY:  misc feature
;    LOCATION:  (317174)..(317193)
;    OTHER INFORMATION:  n is unidentified a, c, g, or t
;    NAME/KEY:  misc feature
;    LOCATION:  (546998)..(547017)
;    OTHER INFORMATION:  n is unidentified a, c, g, or t
;    NAME/KEY:  misc feature
;    LOCATION:  (494715)..(494814)
;    OTHER INFORMATION:  n is unidentified a, c, g, or t
;    NAME/KEY:  misc feature
;    LOCATION:  (280353)..(280373)
;    OTHER INFORMATION:  n is unidentified a, c, g, or t
;    NAME/KEY:  misc feature
;    LOCATION:  (271829)..(271848)
;    OTHER INFORMATION:  n is unidentified a, c, g, or t
;    NAME/KEY:  misc feature
;    LOCATION:  (183872)..(183891)
;    OTHER INFORMATION:  n is unidentified a, c, g, or t
;    NAME/KEY:  misc feature
;    LOCATION:  (170625)..(170645)
;    OTHER INFORMATION:  n is unidentified a, c, g, or t
;    NAME/KEY:  misc feature
;    LOCATION:  (132680)..(132700)
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;  OTHER INFORMATION: n is unidentified a, c, g, or t
;  NAME/KEY: misc_feature
;  OTHER INFORMATION: n is a, c, g, or t
   NUMBER OF SEQ ID NOS:
US-09-771-208-20

Query Match      Best Local Similarity   1.8%;   Score 46.4;  DB 9;  Length 659158;
Matches  113;  Conservative   0;  Pred. No. 0.64;  Mismatches 111;  Indels  0;  Gaps  0;

Qy    2144  TTTTTTTACTTGTTTATTCTATTCTCCTTCCGGCGGCCTTCTAGTCATTATTCCTTCCTTCCTC  2203
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  504531  TTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCCTTCCTTCCTTCC  504590

Qy    2204  GTCGAGTCGTCGTCGTCTTCTTGGATCCACTCTTTCCCCATCCTATCTCCTACTTTCCAC  2263
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  504591  TCTTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTTCCTCC  504650

Qy    2264  GCAACTGCGTTTCCCCGGACTCTTCTTCCACGAATTCCGTTGGACCCCTACCGGCTCTTCTCA  2323
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db  504651  CCTCTTCTTCTTCTTCTTCTTCCTCCCTCTCCCCCTCTCCCCCTCTCCCCACCCTTCCACCTT  504710

Qy    2324  GTCAGTCCTCGGCCCTCCCAGCACCGGCCAACACAATCCCTTCACGT  2367
            |||||||||||||||||||||||||||||||||||||||||||||||
Db  504711  CTCCCCTCTTCCACCCCCTTCTTCTCTCTCTCTCTCTCTCTCTCTCT  504754
```

```
RESULT 9
US-09-864-761-21553/c
;  Sequence 21553, Application US/09864761
   Patent No. US20020048763A1
;  GENERAL INFORMATION:
;  APPLICANT: Penn, Sharron G.
;  APPLICANT: Rank, David R.
;  APPLICANT: Hanzel, David K.
;  APPLICANT: Chen, Wensheng
;  TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
;  TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
;  FILE REFERENCE: Aeomica-X-1
   CURRENT APPLICATION NUMBER: US/09/864,761
   CURRENT FILING DATE: 2001-05-23
   PRIOR APPLICATION NUMBER: US 60/180,312      FILING DATE: 2000-02-04
   PRIOR APPLICATION NUMBER: US 60/207,456      FILING DATE: 2000-05-26
   PRIOR APPLICATION NUMBER: US 09/632,366      FILING DATE: 2000-08-03
   PRIOR APPLICATION NUMBER: GB 24263.6         FILING DATE: 2000-10-04
   PRIOR APPLICATION NUMBER: US 60/236,359      FILING DATE: 2000-09-27
   PRIOR APPLICATION NUMBER: PCT/US01/00666     FILING DATE: 2001-01-30
   PRIOR APPLICATION NUMBER: PCT/US01/00667     FILING DATE: 2001-01-30
   PRIOR APPLICATION NUMBER: PCT/US01/00664     FILING DATE: 2001-01-30
   PRIOR APPLICATION NUMBER: PCT/US01/00669     FILING DATE: 2001-01-30
   PRIOR APPLICATION NUMBER: PCT/US01/00665     FILING DATE: 2001-01-30
   PRIOR APPLICATION NUMBER: PCT/US01/00668     FILING DATE: 2001-01-30
   PRIOR APPLICATION NUMBER: PCT/US01/00661     FILING DATE: 2001-01-30
   PRIOR APPLICATION NUMBER: PCT/US01/00663     FILING DATE: 2001-01-30
   PRIOR APPLICATION NUMBER: PCT/US01/00662     FILING DATE: 2001-01-30
   PRIOR APPLICATION NUMBER: PCT/US01/00670     FILING DATE: 2001-01-30
   PRIOR APPLICATION NUMBER: US 60/234,687      FILING DATE: 2000-09-21
   PRIOR APPLICATION NUMBER: US 09/608,408      FILING DATE: 2000-06-30
   PRIOR APPLICATION NUMBER: US 09/774,203      FILING DATE: 2001-01-29
   NUMBER OF SEQ ID NOS: 49117
;  SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
   SEQ ID NO 21553
   LENGTH: 299
   TYPE: DNA
   ORGANISM: Homo sapiens
;  FEATURE:
;  OTHER INFORMATION: MAP TO AL021332.1
;  OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4.9
;  OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 7.8
;  OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 5.5
;  OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 6.1
;  OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 5.5
;  OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 7.6
;  OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 5.1
;  OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.8
;  OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.9
;  OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 5.3
;  OTHER INFORMATION: EST HUMAN HIT: BF311314.1, EVALUE 4.30e+00
;  OTHER INFORMATION: NT HIT: gi4503352, EVALUE 2.40e+00
US-09-864-761-21553

Query Match      Best Local Similarity  53.6%;   Score 46.2;  DB 10;  Length 299;
Matches   96;  Conservative   0;  Pred. No. 0.011;  Mismatches 83;  Indels  0;  Gaps  0;

Qy    2123  AAATACTCGAGATTTCTTGGATTTTTTTTACTTGTTTATTCTTTCCTTCCGGCGGCCTC  2182
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     257  AAGTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTC  198

Qy    2183  TCTAGTCTATTCTCCTTCCGTCGAGTCGTCGTCTTCTTCGATCCCACTCTTTCCCCAT  2242
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     197  TTCTTCCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTTTTCTCCTTCCTCCTCCT  138

Qy    2243  CCCTATCTCCCTACTTTCCACGCAACTGCGTTTCCCCGGACTCTTCTTCCACGAATCC  2301
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     137  CCTCCCTCTTCCTCCCTCTCCTCCCTCTCCTCCCTCTCCTTCCTTCTTCTCTTTTC  79
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RESULT 10
US-09-764-870-611
;  Sequence 611, Application US/09764870
   Patent No. US20020042386A1
;  GENERAL INFORMATION:
;  APPLICANT: Rosen et al.
;  TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
;  FILE REFERENCE: PF214
   CURRENT APPLICATION NUMBER: US/09/764,870
   CURRENT FILING DATE: 2001-01-17
;  Prior application data removed - consult PALM or file wrapper
   NUMBER OF SEQ ID NOS: 646
;  SOFTWARE: Patentin Ver. 2.0
   SEQ ID NO 611
   LENGTH: 32195
   TYPE: DNA
;  ORGANISM: Homo sapiens
US-09-764-870-611

Query Match      Best Local Similarity   1.8%;   Score 45.2;  DB 10;  Length 32195;
Matches  113;  Conservative   0;  Pred. No. 0.26;  Mismatches 113;  Indels  0;  Gaps  0;

Qy    2179  CCTCTCTAGTCTATTCTCCTTCCGTCGAGTCGTCGTCTTCTTCGATCCCACTCTTTCCC  2238
            ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    4974  CCCCTCCCTCTTACTCTCCTCCCTCCTTACTCTCCTCCCTCCTCCCTCCTCTCTCTCTCC  5033

Qy    2239  CCATCCCTATCTCCCTACTTTCCACGCAACTGCGTTTCCCCGGACTCTTCTTCCACGGAT  2298
            |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    5034  CCCTCCTTCCACCCCCCAGTCTCCCCGTCTTACTCTCTTTACTCTCTCCTCC  5093
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RESULT 11
US-09-764-870-617
; Sequence 617, Application US/09764870
; Patent No. US2004236A1
; Patent No. US20042386A1
; CURRENT APPLICATION NUMBER: US/09/764,870
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 646
; SOFTWARE: Patentin Ver. 2.0
;
; SEQ ID NO 617
; LENGTH: 32195
; TYPE: DNA
; ORGANISM: Homo sapiens

  Query Match   1.8%; Score 45.2; DB 10; Length 32195;
  Best Local Similarity   50.0%; Pred. No. 0.26;
  Matches 113; Conservative   0; Mismatches 113; Indels   0; Gaps   0;

Qy   2179 CCTCTCTAGTCTATTCTCCTTCCTCGTCGAGTCGTCGTCTTCTTCGATCCACTCTTTCCC 2238
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   4974 CCCTCCCTCTTTACTCTCCTCCCCCTCTTACTCTCCCCTTCTCCCTCTCTCTCTCC 5033

Qy   2239 CCATCCCTTATCTCCCTTACTTTCCACGCAACTGCGTTTCCCCGGACTCTTCTTCCACGAT 2298
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   5034 CCCTCTCACCCCTCAGTCTCCCCCTCTGTCTTACTCTCCCCTCTCTCTCTCC 5093

Qy   2299 TCCGTTGGACCCCTACGGCTCCTCAGTCAGCACCGGCCAACAAT 2358
          ||||||||||||||||||||||||||||||||||||||||||||
Db   5094 CTCTCTCCCCCTCCTCCACTCTCTCCCCTTACTCTTCTCTCCCTCTCT 5153

Qy   2359 CCCTCACGTTATTCCCTGTAGCTACTATGCTGCCCTCTTTGGATCCC 2404
          |||||||||||||||||||||||||||||||||||||||||||||||
Db   5154 CCCCCTCCCTCTCACCCCCTTCCCTCTCACCCCTCACTCAGTCTCC 5199

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RESULT 12
US-09-764-869-1605
; Sequence 1605, Application US/09764869
; Patent No. US20020615221A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC007
; CURRENT APPLICATION NUMBER: US/09/764,869
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 2442
; SOFTWARE: Patentin Ver. 2.0
;
; SEQ ID NO 1605
; LENGTH: 32195
; TYPE: DNA
; ORGANISM: Homo sapiens

  Query Match   1.8%; Score 45.2; DB 10; Length 32195;
  Best Local Similarity   50.0%; Pred. No. 0.26;
  Matches 113; Conservative   0; Mismatches 113; Indels   0; Gaps   0;

Qy   2179 CCTCTCTAGTCTATTCTCCTTCCTCGTCGAGTCGTCGTCTTCTTCGATCCACTCTTTCCC 2238
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   4974 CCCTCCCTCTTTACTCTCCTCCCCCTCTTACTCTCCCCTTCTCCCTCTCTCTCTCC 5033

Qy   2239 CCATCCCTTATCTCCCTTACTTTCCACGCAACTGCGTTTCCCCGGACTCTTCTTCCACGAT 2298
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   5034 CCCTCTCACCCCTCAGTCTCCCCCTCTGTCTTACTCTCCCCTCTCTCTCTCC 5093

Qy   2299 TCCGTTGGACCCCTACGGCTCCTCAGTCAGCACCGGCCAACAAT 2358
          ||||||||||||||||||||||||||||||||||||||||||||
Db   5094 CTCTCTCCCCCTCCTCCACTCTCTCCCCTTACTCTTCTCTCCCTCTCT 5153

Qy   2359 CCCTCACGTTATTCCCTGTAGCTACTATGCTGCCCTCTTTGGATCCC 2404
          |||||||||||||||||||||||||||||||||||||||||||||||
Db   5154 CCCCCTCCCTCTCACCCCCTTCCCTCTCACCCCTCACTCAGTCTCC 5199

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RESULT 13
US-10-047-593-5/c
; Sequence 5, Application US/10047593
; Patent No. US20020170094A1
; GENERAL INFORMATION:
; APPLICANT: Crane, Edmund H. III
; TITLE OF INVENTION: Maize NPR1 Polynucleotides and Methods
; TITLE OF INVENTION: of Use
; FILE REFERENCE: 1090D2
; CURRENT APPLICATION NUMBER: US/10/047,593
; PRIOR APPLICATION NUMBER: 60/130,692
; PRIOR FILING DATE: 1999-04-23
; PRIOR APPLICATION NUMBER: 09/551,778
; PRIOR FILING DATE: 2000-04-18
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
;
; SEQ ID NO 5
; LENGTH: 2715
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: promoter
; LOCATION: (1)...(2715)
US-10-047-593-5

  Query Match   1.7%; Score 45; DB 9; Length 2580;
  Best Local Similarity   54.5%; Pred. No. 0.074;
  Matches 90; Conservative   0; Mismatches 75; Indels   0; Gaps   0;

Qy   188 GTTGGCCCGACCGACCGTTGGCCTCACCGGACAGTCCGGTGCACACGACAGTCCGGGTGA 247
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   352 GTGCACCGGACTGTCCGGTGGTTCACCGGACAGCAAGTTCGCCTGAGCCACCGCCTG 293

Qy   248 ATTATAGCCGTACGGCCGTTAATCACTTCCCGAGAGCAGCAAGTTCGCCTGAGCCAGCCTG 307
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   292 GAACTTGCTGCTCTCGGGAAGTGATTAACGGCGTACGGCTTATATAATTCACCGGACTGTCTG 233

Qy   308 GCGCACCGGACACTGTCCGGTGGACCACCGGACACAGTCCGGTGCAC 352
          |||||||||||||||||||||||||||||||||||||||||||||||
Db   232 GTGTGCACCGGACTGTCCGGTGAGCCAAACGGTCGGTCGGGCCAAC 188

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RESULT 14
US-10-047-593-3/c
; Sequence 3, Application US/10047593
; Patent No. US20020170094A1
; GENERAL INFORMATION:
; APPLICANT: Crane, Edmund H. III
; APPLICANT: Rice, Douglas A.
; TITLE OF INVENTION: Maize NPR1 Polynucleotides and Methods
; TITLE OF INVENTION: of Use
; FILE REFERENCE: 1090D2
; CURRENT APPLICATION NUMBER: US/10/047,593
; CURRENT FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/130,692

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;  PRIOR FILING DATE: 1999-04-23
;  PRIOR APPLICATION NUMBER: 09/551,778
;  PRIOR FILING DATE: 2000-04-18
;  NUMBER OF SEQ ID NOS: 6
;  SOFTWARE: FastSEQ for Windows Version 4.0
;
;  SEQ ID NO 3
;  LENGTH: 7789
;  TYPE: DNA
;  ORGANISM: Zea mays
;  FEATURE:
;  NAME/KEY: promoter
;  LOCATION: (1)...(2715)
;  NAME/KEY: 5'UTR
;  LOCATION: (2716)...(2781)
;  NAME/KEY: exon
;  LOCATION: (2782)...(3435)
;  NAME/KEY: intron
;  LOCATION: (3436)...(3987)
;  NAME/KEY: exon
;  LOCATION: (3988)...(4738)
;  NAME/KEY: intron
;  LOCATION: (4739)...(5274)
;  NAME/KEY: exon
;  LOCATION: (5275)...(5475)
;  NAME/KEY: intron
;  LOCATION: (5476)...(5665)
;  NAME/KEY: exon
;  LOCATION: (5666)...(5922)
;  NAME/KEY: 3'UTR
;  LOCATION: (5926)...(6124)
US-10-047-593-3
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Query Match
Best Local Similarity     54.5%;
Matches  90; Conservative   0; Mismatches  75; Indels   0; Gaps   0;

Qy  188 GTTGGCCCGACCGACCGTTGGCCTCACCGACCGGACACCAGACAGTCCGGTGA 247
         |  |||   ||||   ||| |||||  ||||||||||||||||||||||||||
Db  352 GTGCACCGGACTGTCCGGTGGTTCACCGGACAGTGTCCGGTCGCGCAGGCTGGCTCAGGC 293

Qy  248 ATTATAGCCGTACGCCGTTTAATCACTTCCCGAGAGCAGAGCAAGTTCGCCGTGAGCCAGCCTG 307
         | |||||||||||||||||||||||  | | ||||||||||||||||||||||||||
Db  292 GAACTTGCTGCTCTCGGGAAGTGATTAACGGCCGTACGGCTATTAATTCACCGGACACTGTCTG 233

Qy  308 GCGCACCCGGACACTGTCCGGTGAACCACCGGACAGTCCGGTGCAC 352
         ||||||||||||||||||||||||||||||||||||||||||||
Db  232 GTGTGCACCGGACTGTCCGGTGGAGCCAACGGTCGGTCGGGGCCAAC 188
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RESULT 15
US-09-960-352-15014/c
;  Sequence 15014, Application US/09960352
;  Patent No. US2002013713A1
;  GENERAL INFORMATION:
;  APPLICANT: Warren, Wesley C.
;  APPLICANT: Tao, Nengbing
;  APPLICANT: Byatt, John C.
;  APPLICANT: Mathialagan, Nagappan
;  TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
;  TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
;  FILE REFERENCE: 16511.006/37-21(10298)C
;  CURRENT APPLICATION NUMBER: US/09/960,352
;  CURRENT FILING DATE: 2001-09-24
;  NUMBER OF SEQ ID NOS: 15112
;
;  SEQ ID NO 15014
;  LENGTH: 375
;  TYPE: DNA
;  ORGANISM: Bos taurus
;  OTHER INFORMATION: Clone ID: 64-LIB3058-048-Q1-K1-H8
US-09-960-352-15014
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Query Match
Best Local Similarity    51.0%;
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Matches 100; Conservative   0; Mismatches  96; Indels   0; Gaps   0;

Qy 1769 TGTTGGAATTCCCTTCTTATGATTTATTAGTAGTAGAGTTTTGTTACAGTTTATTTACGG 1828
         |  ||   ||||                                      ||||||
Db  308 TTTTTTATTTTGAATATTTTTATTCATCACAGTATTTTTTTAAATTTTTTTTTTT 249

Qy 1829 ATTCATTACGGTATTTATTTATTAGGGATACGTTGACATATAAACTTCAGTCGTCTTCTTTTTTTTAAT 1888
         | ||| |                                         ||||||
Db  248 TTTTTTTTCCATCCTTTTTTTTTTAAAAAAATATATTTTTTTTTTTTTTTTTTTTATT 189

Qy 1889 AGTCACAAGAAAACTTTCACACACCTACTAGGAGTAACAGAAAAACATGGACATATTGATT 1948
         |||                                               ||||||
Db  188 TTTTAAATAATAAAATAATAAAAAAATAATAAAATAATAATAAAAAAAAAAAAA 129

Qy 1949 TTTGAAAAAAGAAATA 1964
         ||||| ||||
Db  128 AAAAAAAAAAAAAAAAA 113
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Search completed: February 3, 2003, 19:02:48
Job time : 1438 secs
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